



Technical Data Sheet

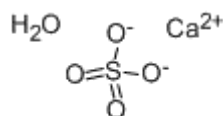
Chemical name: Calcium sulfate hemihydrate

CAS No.: 10034-76-1

Molecular formula: $\text{CaH}_2\text{O}_5\text{S}$

Molecular weight: 154.16

Structural formula:



Sodium sulfonate Properties

Items	Index
Appearance	White powder
Assay	$\geq 99\%$
Clarity	Complies
HCl insoluble	$\leq 0.025\%$
Chloride	$\leq 0.002\%$



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Nitrate	$\leq 0.002\%$
Ammonium Salt	$\leq 0.005\%$
Carbonate	$\leq 0.05\%$
Iron	$\leq 0.0005\%$
Heavy metal	$\leq 0.001\%$
Magnesium and alkali metals	$\leq 0.2\%$

Application

Food processing:

Calcium sulfate can be used as a flour treatment agent (as a diluent for benzoyl peroxide), with a maximum usage of 1.5 grams per kilogram; it is used as a coagulant in food processing. It is used to make tofu, and about 14-20 grams per liter of soybeans are added to soy milk (excessive amounts will produce bitterness). It is added to wheat flour at 0.15% and used as yeast food and dough regulator. It is added to canned tomatoes and potatoes as a tissue strengthener. It is used as a water hardener and a flavor enhancer for brewing beer. It can also be used as a nutritional supplement.

Industrial production:

1. Construction industry: Calcium sulfate can be used in the construction industry for building materials, thermal insulation materials, coatings, reinforcement materials, etc. Calcium sulfate whiskers have good friction, heat preservation, heat insulation, fire prevention, non-conductor insulation and other properties, and can replace asbestos as a friction material, thermal insulation material, and fireproof (flame retardant) material. It is used as an early strength agent in concrete admixtures, generally with a dosage of about 3%, to adjust the setting time and mix and grind in cement. When calcium sulfate is added to concrete, it has a significant early strength effect.



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2. Papermaking industry: Calcium sulfate is used in the papermaking industry to replace part or most of the pulp. Calcium sulfate with an aspect ratio of less than or equal to 50 can be used as a high-grade filler for paper, which can greatly increase paper production, reduce wood consumption, and help protect the environment and reduce wastewater pollution.

3. Chemical industry: In the chemical industry, it can be used as a reinforcing material. Anhydrous calcium sulfate whiskers can be used in plastic granulation to enhance the strength of plastic particles, high temperature resistance, and reduce costs. In the production of plastics such as polyvinyl chloride, polyethylene, propylene, and polystyrene, it can enhance the performance of various aspects of the product, improve fineness, dimensional stability, surface finish, tensile strength, bending strength, bending elastic modulus and thermal deformation temperature, and reduce equipment wear. As an asphalt filler, it can significantly increase the softening point of asphalt.

Agriculture:

Calcium sulfate can be used as a fertilizer in agriculture to reduce soil alkalinity and improve soil performance.

Medicine:

Calcium sulfate has a variety of applications in the pharmaceutical industry. It can be used to prepare drugs and provide the required ingredients and properties for drugs. In addition, calcium sulfate is also used to make tablets to ensure the stability and effectiveness of tablets. At the same time, it is also added to toothpaste to enhance the composition and function of toothpaste. These applications reflect the importance of calcium sulfate in the pharmaceutical industry, providing key ingredients and properties for pharmaceutical products.

packaging

25kg/bag